Inspiring Innovation • Persistent Perfection

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P8Z77 WS

50% Upgrade With Gen 3 Graphics Power

- Best Graphics Performance with Gen3 CrossFireX™ and Geforce® SLI™
- Dual Server Class Intel® Gigabit LAN Lower CPU Utilization and Improve Throughput Quality
- Up to 60% Hybrid Graphics Boost and 3X Faster Video Conversion with LucidLogix Virtu MVP
- 3X Faster Performance with one-click ASUS SSD Caching
- Fan Xpert 2 - The Most Customizable Fan Controls

Workstation Essentials for Your Business

The ASUS Workstation Series is the ideal foundation for a powerful PC. It delivers awesome power, dependable performance and unmatched multiple I/O scalability for the most demanding tasks and future upgrades. The ASUS Workstation Series intelligently reduces operating noise and dissipates heat through advanced and environmentally friendly methods to accommodate user needs. ASUS Workstation Series motherboards also bring you ultimate reliability and quality through our 24x24 initiative, which means 24-hour non-stop operation and a 24-month life cycle supply guarantee so you don´t change computers so often.Instead, let the ASUS Workstation Series improve the quality of your work and life.

ASUS Workstation Exclusive Features

Best performance for Gen3 CrossFireX™ and Geforce® SLI™

The Best Graphics Performance You've Ever Experienced
ASUS P8Z77 WS workstation boards come loaded with the latest standards for peace of mind, expandability, and reliability. PCI Express 3.0-based 4-way NVIDIA® GeForce® SLI™ and multi-GPU AMD CrossFireX™ graphics power improves on the performance of PCI Express 2.0 setups whether for gaming or starting a graphics studio.

Built-in Dual Intel Server-Class Gigabit LAN

Extreme throughput capability and lowest CPU utilization
For more reliable networking, the P8Z77 WS features built-in dual server class Intel® Gigabit LAN. This leads to lower 71% CPU utilization , increasing throughput to achieve outstanding performance as well as better support for diverse operating systems.

WS 3-color LED

3 Color LED

Instant O.C Status Checking with 3-color LED
At a glance workstation overclocking status with easy to understand color coding. Red means overclocked, blue means normal, while green denotes power saving mode. This is an essential and convenient tool to let users know more about overclocking conditions without entering the BIOS.

Server-level Compatibility

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Server-level Compatibility with RAID card and Lan card
The P8Z77 WS provides complete compatibility with RAID and LAN cards.Users enjoy a wider selection of devices and higher reliability. As a workstation motherboard that puts an emphasis on system integration, the P8Z77 WS offers the benefit of greater confidence and convenience.

LucidLogix Virtu MVP

LucidLogix Virtu MVP

Up to 60% Hybrid Graphics Boost and 3X Faster Video Conversion
LucidLogix Virtu MVP featuring HyperFormance™ Technology boosts your discrete graphics card up to 60% beyond its original performance through

PCIe 3.0 Ready

PCIe 3.0 Ready

PCI Express® 3.0 (PCIe 3.0) is the latest PCI Express bus standard with improved encoding schemes that provide twice the performance of current PCIe 2.0. Total bandwidth for a x16 link reaches a maximum of 32GB/s, double the 16GB/s of PCIe 2.0 (in x16 mode). As such, PCIe 3.0 provides users unprecedented data speeds, combined with the convenience

the test of 3DMark Vantage. Designed for Intel® processor graphics and Windows® 7 PCs, it perfectly combines the performance of discrete graphics cards with fast computing iGPU. Also with the newly designed Virtual Sync, users can enjoy a smoother gaming experience by eliminating tearing artifacts. LucidLogix Virtu MVP could also dynamically assign tasks to the best available graphics resource, based on power, performance and system load. This allows users to fully utilize 3x faster video conversion with Intel® Quick Sync Video technology while retaining high-end 3D rendering and gaming performance, provided by both NVIDIA® and AMD graphic cards. When the discrete graphics card is not required, power consumption goes automatically down to near zero, making the system more environmentally-friendly. For users searching for perfection, LucidLogix Virtu MVP provides great graphical performance and the best flexibility and efficiency.

* LucidLogix® Virtu Universal MVP™ supports Windows® 7 operating system.
** Intel® Quick Sync Video feature is supported by 3rd/2nd generation Intel® Core™ processor family.
*** System Config: OS: Windows 7 64bit SP1 | MB: P8Z77-V DELUXE | CPU: CPU-1155-QB15-2700K-3.5G-Sandy BRIDGE100-8M |DIMM: DDR3 G.SKILL 17000CL9Q-16GBZH 4GB * 4 | Lucidvirtu MVP version: V2.1.110.19997 | On-board Intel VGA Driver version: V8.15.10.2598 | ASUS GTX580 Driver version: V8.17.12.8562

and seamless transition offered by complete backward compatibility with PCIe 1.0 and PCIe 2.0 devices. PCIe 3.0 will become a must-have feature for users who wish to improve and optimize graphic performance, as well as have the latest technology available to them.

* PCIe 3.0 speed is supported by Intel® 3rd generation Core™ processors.

ASUS Exclusive Features

TPU plus SMART DIGI+

TPU with the All-New SMART DIGI+ for a Blazing Performance Boost
Always at the forefront of power design, ASUS propels you into the future standard of power management again by SMART DIGI+ Technology, which works with the TPU (TurboV Processing Unit) to ramps up performance to its maximum. Enable the all-new SMART DIGI+ key with a single click and adjust CPU ratios manually in the TPU to increase CPU frequency up to an incredible 85%!

O.C. Performance Boost

CPU Wattage Cut in Half!
SMART DIGI+ Technology also includes the Smart CPU Power Level profile, which reduces CPU power consumption to a specific indicated wattage with a single click, creating a cooler and quieter PC. With next generation Intel® VRD 12.5 future power technology, ASUS once again leaps to the future of innovation.

ASUS SSD Caching

3X Faster Performance at a Click
SSD Caching from ASUS is easier than ever. At 3X faster, this feature boosts system performance by using an installed SSD with no capacity limitations as a cache for frequently accessed data. Harness a combination of SSD-like performance and response and hard drive capacity with just one click, no rebooting needed and instant activation for complete ease of use, and even prevent data loss with included backup functionality.

USB 3.0 Boost

Faster USB 3.0 Transmission with UASP
ASUS USB 3.0 Boost technology supports UASP (USB Attached SCSI Protocol), the latest USB 3.0 standard. With USB 3.0 Boost technology, a USB device's transmission speed is significantly increased up to 170%, adding to an already impressive fast USB 3.0 transfer speed. ASUS software automatically accelerates data speeds for compatible USB 3.0 peripherals without the need for any user interaction.

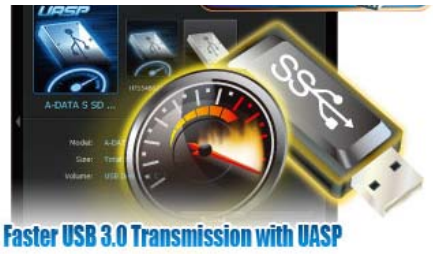
True UASP Support

- World's 1st USB 3.0 UASP Support – 170% faster instantly
- Complete USB 3.0 Solution – Performance boost for most USB devices
- Simple Plug & Boost – Auto detection design ensures best performance always

Fan Xpert 2

Optimizes the Speed of All Fans for the Ultimate Cool and Quiet
Hardware-level ASUS Fan Xpert 2 provides the most customizable settings for an even cooler and quieter computing environment. Upgraded with Fan Auto Tuning mode, it enables tailored fan speed settings for each CPU and chassis fan with exclusive automatic fan speed detection, which scans through each fan to run at specific settings based on different criteria, acheiving the best balance of cooling performance and low noise. Fan Xpert 2 also includes an RPM Fixed Mode for users who wish to reduce noise levels to near 0dB with highly specific fan speed control. It reacts to system loads for greater control.

One Click Optimization



USB BIOS Flashback

Simple Plug & Press - Hardware-based BIOS Flashback

A truly revolutionary hardware-based update solution. USB BIOS Flashback offers the most convenient way ever to update the BIOS! It allows users to update new UEFI BIOS versions even without hardware such as a CPU or DRAM installed into the motherboard. Just plug in a USB flash drive containing the BIOS file, and press the BIOS Flashback button for 3 seconds with the power supply connected. The UEFI BIOS will then automatically update without requiring further interaction. With its new, complementary Windows application, users can regularly check for UEFI BIOS updates and download the latest BIOS automatically. Hassle-free updating for the ultimate convenience!

Network iControl

Real-time Network Bandwidth Control

With a single-click on/off button, the application currently in use has its data and network bandwidth prioritized over other programs. Moreover, you can prioritize your favorite software easily by configuring profiles through the intuitive user interface. Within the profile, programs can be pre-scheduled to run in a specific time period to avoid network congestion and long-waits on downloads. Auto PPPoE network connection provides a one-step setup for enhanced online convenience. Overall, it's an intuitive network bandwidth control center.

UEFI BIOS

ASUS UEFI BIOS offers the first mouse-controlled graphical BIOS designed with selectable modes, providing a user-friendly interface that goes beyond traditional keyboard-only controls. It also natively supports fully-utilized hard drives larger than 2.2TB in 64-bit operating systems.

ASUS Exclusive Interface

EZ Mode displays frequently-accessed info. Users can choose system performance settings and drag and drop boot priorities. Advanced Mode for performance enthusiasts includes detailed DRAM settings via a dedicated memory info page for complete insight.

New Upgrade! Quick and Easy Info for Enhanced System Control

- F12 BIOS snapshot hotkey for sharing UEFI setup info and troubleshooting
- New F3 Shortcut for most accessed info
- ASUS DRAM SPD (Serial Presence Detect) Information for accessing memory info, detecting faulty DIMMs and helping with difficult POST situations

ASUS Crystal Sound

DTS Connect

Expand Your PC Audio Experience

To get the most out of your audio entertainment across all formats and quality levels, DTS Connect combines two enabling technologies. DTS Neo:PC™ upmixes stereo sources (CDs, MP3s, WMAs, internet radio) into as many as 7.1

DTS UltraPC II

DTS UltraPC II delivers exceptional 7.1 surround through the most popular PC audio setups - your existing stereo speakers or headphones. In addition to virtual surround, it upgrades original sound to new levels with Audio Restoration, recreating the dynamic range of audio files.

channels of incredible surround sound. Consumers can then connect their PC to a home theater system.DTS Interactive is capable of performing multi-channel encoding of DTS bitstreams on personal computers, and sending encoded bitstreams out of a digital audio connection (such as S/PDIF or HDMI) designed to deliver audio to an external decoder.

Symmetry mode improves the balance of perceived loudness across different input sources and Enhance boosts audio quality through high and low frequency equalization. With these technologies, users experience better home theater audio with ease.

CPU, Chipset and Graphics Features

LGA1155 Intel® 3rd/2nd Generation Processors Ready

This motherboard supports Intel® 3rd generation Intel® Core™ processor-based platform and 2nd generation Core™ i7/i5/i3/Pentium®/Celeron® processors, with iGPU, memory and PCI Express controllers integrated to support onboard graphics output with dedicated chipsets, 2-channel (4 DIMM) DDR3 memory and 16 PCI Express 3.0/2.0 lanes. This provides great graphics performance. Intel® 3rd generation Intel® Core™ processor-based platform and 2nd generation Core™ i7/i5/i3/Pentium®/Celeron® processors are among the most powerful and energy efficient CPUs in the world.

Intel® Z77 Express Chipset

The Intel® Z77 Express Chipset is a single-chipset design to support socket 1155 Intel® 3rd generation Intel® Core™ processor-based platform and 2nd generation Core™ i7/i5/i3/Pentium®/Celeron® processors. It provides improved performance by utilizing serial point-to-point links, allowing increased bandwidth and stability. Additionally, Z77 chipset provides 4 USB 3.0 ports for 10 times faster data retrieval speed. Moreover, Intel® Z77 Express Chipset can also enable iGPU function, letting users enjoy the latest Intel® integrated graphic performance.

Geforce® SLI™ and CorssFireX™ Support

Flexible Multi-GPU solutions, Your Weapon of Choice!
The motherboard's powerful Intel® Z77 platform optimizes PCIe allocation in multiple-GPU configurations of either SLI™ or CrossFireX™ . This allows you to enjoy a never before-experienced brand new gaming style.

Specifications

CPU	Intel® Socket 1155 for 3rd/2nd Generation Processors Supports Intel® 22 nm CPU Supports Intel® 32 nm CPU Supports Intel® Turbo Boost Technology 2.0 * The Intel® Turbo Boost Technology 2.0 support depends on the CPU types. * Refer to www.asus.com for CPU support list
Chipset	Intel® Z77
Memory	4 x DIMM, Max. 32GB, DDR3 MHz Memory Dual Channel Memory Architecture Supports Intel® Extreme Memory Profile (XMP) * Hyper DIMM support is subject to the physical characteristics of individual CPUs. * Refer to www.asus.com or user manual for the Memory QVL (Qualified Vendors Lists).
Graphic	Integrated Graphics Processor VGA output support : DVI port - Supports DVI with max. resolution 1920 x 1200 @ 60 Hz Supports Intel® HD Graphics, InTru™ 3D, Quick Sync Video, Clear Video HD Technology, Insider™
Multi-GPU Support	Supports NVIDIA® 4-Way SLI™ Technology Supports AMD Quad-GPU CrossFireX™ Technology Supports LucidLogix® Virtu™ MVP Technology *1
Expansion Slots	4 x PCIe 3.0/2.0 x16 (dual x16 or x16, x8, x8 or quad x8) *2 2 x PCIe 2.0 x1
Storage	**Intel® Z77 chipset :** 2 x SATA 6Gb/s port(s), white 4 x SATA 3Gb/s port(s), blue Support Raid 0, 1, 5, 10 Supports Intel® Smart Response Technology, Intel® Rapid Start Technology, Intel® Smart Connect Technology *3 **Marvell® PCIe 9128 controller :** 2 x SATA 6Gb/s port(s), navy blue Support Raid 0, 1 **ASMedia® PCIe SATA controller :** *4 2 x eSATA 6Gb/s port(s), red
LAN	Intel® 82574L, 2 x Gigabit LAN Controller(s)
Audio	Realtek® ALC898 8-Channel High Definition Audio CODEC - Supports : Jack-detection, Multi-streaming, Front Panel Jack-retasking **Audio Feature :** - Absolute Pitch 192kHz/ 24-bit True BD Lossless Sound - Blu-ray audio layer Content Protection - DTS Ultra PC II - DTS Connect - Optical S/PDIF out port(s) at back panel

USB Ports	**ASMedia® USB 3.0 controller :** *5 2 x USB 3.0 port(s) (2 at back panel, blue) **Intel® Z77 chipset :** *5 4 x USB 3.0 port(s) (2 at back panel, blue, 2 at mid-board) **Intel® Z77 chipset :** 9 x USB 2.0 port(s) (4 at back panel, , 5 at mid-board)
Workstation Feature	4 x PCIe x 16 slot(s) Quick Gate: 1 x vertical USB 2.0 on board ASUS SASsaby series Cards support ASUS WS Diag. LED ASUS WS 3-color LED
Special Features	**ASUS Dual Intelligent Processors 3 - SMART DIGI+ Power Control :** **SMART DIGI+ :** - Smart DIGI+ Key- quickly delivers higher VRM frequency, voltage and current for superior CPU/iGPU/DRAM overclocking performance with one switch. - Smart CPU Power Level (Intel® VRD 12.5 Future Power Design)- provides the best digital power saving conditions. **ASUS Hybrid Processor - TPU :** - Auto Tuning - TurboV - TPU switch **ASUS EPU :** - EPU - EPU switch **ASUS Digital Power Design :** - Industry leading Digital 20 Phase Power Design (16 -phase for CPU, 4 -phase for iGPU) - Industry leading Digital 2 Phase DRAM Power Design - CPU Power Utility - DRAM Power Utility **ASUS Exclusive Features** : - USB BIOS Flashback - MemOK! - AI Suite II - Ai Charger+ - USB Charger+ - Anti-Surge - ASUS UEFI BIOS EZ Mode featuring friendly graphics user interface - ASUS SSD Caching - Network iControl - USB 3.0 Boost - Disk Unlocker **ASUS Quiet Thermal Solution** : - Stylish Fanless Design Heat-pipe solution - ASUS Fan Xpert 2 **ASUS EZ DIY :** - ASUS O.C. Tuner - ASUS CrashFree BIOS 3 - ASUS EZ Flash 2 **ASUS Q-Design :** - ASUS Q-Code - ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED) - ASUS Q-Slot - ASUS Q-DIMM - ASUS Q-Connector
Back I/O Ports	1 x PS/2 keyboard/mouse combo port(s) 1 x DVI-I 2 x eSATA 6Gb/s 2 x LAN (RJ45) port(s) 4 x USB 3.0 4 x USB 2.0 1 x Optical S/PDIF out 6 x Audio jack(s) 1 x USB BIOS Flashback Button(s)
Internal I/O Ports	1 x USB 3.0 connector(s) support(s) additional 2 USB 3.0 port(s) (19-pin) 2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s) 1 x Vertical USB 2.0 port(s) 4 x SATA 6Gb/s connector(s) 4 x SATA 3Gb/s connector(s) 1 x CPU Fan connector(s) (4 -pin) 4 x Chassis Fan connector(s) (4 -pin) 1 x Optional Fan connector(s) (4 -pin) 1 x S/PDIF out header(s) 1 x 24-pin EATX Power connector(s) 1 x 8-pin ATX 12V Power connector(s) 1 x 4-pin EZ_PLUG Power connector(s) 1 x Front panel audio connector(s) (AAFP) 1 x System panel(s) (Q-Connector)

	1 x MemOK! button(s) 1 x TPU switch(es) 1 x EPU switch(es) 1 x Power-on button(s) 1 x Reset button(s) 1 x Clear CMOS jumper(s)
Accessories	User's manual I/O Shield 2 x SATA 3Gb/s cable(s) 4 x SATA 6Gb/s cable(s) 1 x 3-Way SLI bridge(s) 1 x 4-Way SLI bridge(s) 1 x SLI bridge(s) 1 x Q-connector(s) (2 in 1)
BIOS	64 Mb Flash ROM, UEFI AMI BIOS, PnP, DMI2.0, WfM2.0, SM BIOS 2.5, ACPI 2.0a, Multi-language BIOS, ASUS EZ Flash 2, ASUS CrashFree BIOS 3, F12 PrintScreen, F3 Shortcut Function and ASUS DRAM SPD (Serial Presence Detect) memory information
Manageability	WfM 2.0, DMI 2.0, WOL by PME, PXE
Support Disc	Drivers ASUS Utilities ASUS Update Anti-virus software (OEM version)
Form Factor	ATX Form Factor 12 inch x 9.6 inch (30.5 cm x 24.4 cm)
Note	*1: LucidLogix Virtu MVP supports Windows 7 operating systems. *2: PCIe 3.0 speed is supported by Intel® 3rd generation Core™ processors. *3: Supports on Intel® Core™ processor family with Windows 7 operating systems. *4: These SATA ports are for data hard drivers only. ATAPI devices are not supported. *5-1: Supports ASUS USB 3.0 Boost UASP Mode. *5-2: The USB 3.0 ports only support Windows® 7 or later versions.